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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

EDGAR BENJAMIN CAHOON

CASE NO.: BB1465 US NA

APPLICATION NO.: 09/909566

CONFIRMATION NO.:

GROUP ART UNIT: 1652

EXAMINER: KATHLEEN M. KERR

FILED: JULY 20, 2001

FOR: A CYTOCHROME P450-DEPENDENT ENZYME ASSOCIATED WITH THE
SYNTHESIS OF THE EPOXY GROUP OF VERNOLIC ACIDSUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08. A copy of the International Search Report along with copies of those references cited therein are attached.

Enclosed is a Form PTO/SB/17 authorizing the associated fee to be charged to a Deposit Account of **E. I. du Pont de Nemours and Company**.

Respectfully submitted,

LYNNE M. CHRISTENBURY
ATTORNEY FOR APPLICANT
Registration No.: 30,971
Telephone: (302) 992-5481
Facsimile: (302) 892-1026

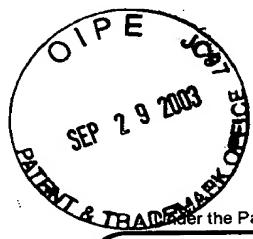
Dated: September 26, 2003

Enclosures

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PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Shee

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Complete if Known

Application Number	09/909566
Filing Date	July 20, 2001
First Named Inventor	Edgar Benjamin Cahoon
Art Unit	1645
Examiner Name	
Attorney Docket Number	BB1465 US NA

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

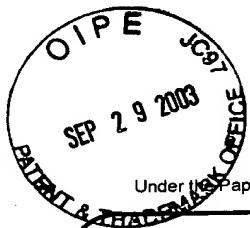
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	1	WO 98 46762 A	10-22-1998	COMMONWEALTH SCI.		
				AND IND. RES. ORG.		
	2	WO 98 56922 A	12-17-1998	DUPONT		
	3	WO 98 59042 A	12-30-1998	WASH. STATE UNIV.		
				RES. FOUNDATION		

Examiner Signature		Date Considered	
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO:** **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

Complete if Known

Application Number 09/909566

Filing Date July 20, 2001

First Named Inventor Edgar Benjamin Cahoon

Art Unit 1645

Examiner Name Kathleen M. Kerr

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Attorney Docket Number BB1465 US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	CRAIG SEITHER ET AL., Isolation of Cytochrome P-450 Genes from Vernonia Galamensis, Phys., Biochem. & Mol. Biol. of Plant Lipids, pp. 389-391, 1997, XP002080169	<input type="checkbox"/>
	2	ELIZABETH BLEE ET AL., Regio-and Stereoselectivity of Cytochrome P-450 and Peroxygenase-Dependent Formation of Cis-12,13-Epoxy-9(Z)-Octadecenoic Acid (Vernolic Acid) In Euphorbia Lagascae, Biochem. & Biophys. Res. Comm., Vol. 197(2):778-784, December 15, 1993, XP002211220	<input type="checkbox"/>
	3	MAUREEN BAFOR ET AL., Biosynthesis of Vernoleate (cis-12-Epoxyoctadeca-cis-9-enoate) in Microsomal Preparations from Developing Endosperm of Euphorbia lagascae, Arch. of Biochem. & Biophys., Vol. 303(1):145-151, May 15, 1993, XP001087607	<input type="checkbox"/>
	4	EMBL LIBRARY DATABASE ACCESSION NO: Y10490, JULY 17, 1998, C. R. SCHOPFER ET AL., Identification of elicitor-induced cytochrome P450s of soybean (glycine max L.) using differential display of mRNA, XP002211222	<input type="checkbox"/>
	5	EMBL LIBRARY DATABASE ACCESSION NO: 081971, DECEMBER 15, 1998, C. R. SCHOPFER ET AL., Identification of elicitor-induced cytochrome P450s of soybean (glycine max L.) using differential display of mRNA, XP002211223	<input type="checkbox"/>
	6	EMBL LIBRARY DATABASE ACCESSION NO: AF122821, JANUARY 24, 2000, B. J. OH ET AL., A Cytochrome P450 gene is differentially expressed in compatible and incompatible interactions between pepper (<i>Capsicum annuum</i>) and the anthracnose fungus, <i>Colletotrichum gloeosporioides</i>	<input type="checkbox"/>

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/909566
(Use as many sheets as necessary)				Filing Date	July 20, 2001
				First Named Inventor	Edgar Benjamin Cahoon
				Art Unit	1645
				Examiner Name	Kathleen M. Kerr
Sheet	2	of	2	Attorney Docket Number	BB1465 US NA

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ₁	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	7	DATABASE BIOSCIENCES INFORMATION SERVICE, REINHARD VOGEL ET AL., 1993, Seed oils for new chemical applications: 1. Vernolic acid produced by Euphorbia lagascae, Database Accession No. PREV199396038668, XP002211224				<input type="checkbox"/>
						RECEIVED
						OCT 08 2003
						TECH CENTER 1600/2900
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Examiner Signature	Date Considered
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/92 (08-03)

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Certificate of Mailing under 37 CFR 1.8

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Alexandria, VA 22313-1450

on September 26, 2003
Date

Lisa Z. Turner
Signature

LISA Z. TURNER

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

09/909566

BB1465 US NA

INFORMATION DISCLOSURE STATEMENT

PTO/SB/08A FORM (1)

PTO/SB/08B FORM (2)

INTERNATIONAL SEARCH REPORT

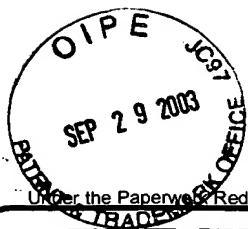
REFERENCES

FEE TRANSMITTAL SHEET

POSTCARD

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27TOTAL AMOUNT OF PAYMENT (\$)**180.00**

Complete if Known

Application Number**09/909566**Filing Date**July 20, 2001**First Named Inventor**Edgar Benjamin Cahoon**Examiner Name**Kathleen M. Kerr**Art Unit**1645**Attorney Docket No.**BB1465 USNA**RECEIVED
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METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:Deposit Account Number
Deposit Account Name**04-1928****E. I. du Pont de Nemours and Company**

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) during the pendency of this application
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001	2001	750	375	Utility filing fee	
1002	2002	330	165	Design filing fee	
1003	2003	520	260	Plant filing fee	
1004	2004	750	375	Reissue filing fee	
1005	2005	160	80	Provisional filing fee	
SUBTOTAL (1)		(\$)		0.00	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X 18 =	
			- 3** =	X 84 =	
				280 =	

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	
1202	2202	18	9	Claims in excess of 20	
1201	2201	84	42	Independent claims in excess of 3	
1203	2203	280	140	Multiple dependent claim, if not paid	
1204	2204	84	42	** Reissue independent claims over original patent	
1205	2205	18	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)		(\$)		0.00	

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051	130	2051 65 Surcharge - late filing fee or oath	
1052	50	2052 25 Surcharge - late provisional filing fee or cover sheet	
1053	130	1053 130 Non-English specification	
1812	2,520	1812 2,520 For filing a request for ex parte reexamination	
1804	920*	1804 920* Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805 1,840* Requesting publication of SIR after Examiner action	
1251	110	2251 55 Extension for reply within first month	
1252	410	2252 205 Extension for reply within second month	
1253	930	2253 465 Extension for reply within third month	
1254	1,450	2254 725 Extension for reply within fourth month	
1255	1,970	2255 985 Extension for reply within fifth month	
1401	320	2401 160 Notice of Appeal	
1402	320	2402 160 Filing a brief in support of an appeal	
1403	280	2403 140 Request for oral hearing	
1451	1,510	1451 1,510 Petition to institute a public use proceeding	
1452	110	2452 55 Petition to revive - unavoidable	
1453	1,300	2453 650 Petition to revive - unintentional	
1501	1,300	2501 650 Utility issue fee (or reissue)	
1502	470	2502 235 Design issue fee	
1503	630	2503 315 Plant issue fee	
1460	130	1460 130 Petitions to the Commissioner	
1807	50	1807 50 Processing fee under 37 CFR 1.17(q)	
1806	180	1806 180 Submission of Information Disclosure Stmt	180.00
8021	40	8021 40 Recording each patent assignment per property (times number of properties)	
1809	750	2809 375 Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810 375 For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801 375 Request for Continued Examination (RCE)	
1802	900	1802 900 Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ **180.00**)

(Complete if applicable)

Name (Print/Type)	Lynne M. Christenbury	Registration No. (Attorney/Agent)	30,971	Telephone	(302) 992-5481
Signature	<i>Lynne M. Christenbury</i>				
Date	Sept. 26, 2003				

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